

In re Appln. of Arora et al.  
Serial No. 09/641,556

Sub B1  
Q3

corresponding to the power consuming devices including a name for each device object mapped to at least one address;  
a store managing information for refreshing the power consuming devices and the device objects;  
a publication/subscription eventing component enabling subscriptions to events related to changes in the refresh information managed by the store; and,  
a power line monitor detecting super-imposed transmissions from the power consuming devices on the power line, which signal problems with the power consuming devices.

12. (Amended) The architecture of claim 11, wherein the power line monitor uses pattern-based detection for detecting unacceptable power line activity.

13. (Amended) The architecture of claim 12, wherein the power line monitor matches power line patterns against unacceptable power line patterns stored in a pattern database.

14. (Amended) The architecture of claim 11, wherein the power line monitor uses model-based detection for detecting acceptable power line activity.

15. (Amended) The architecture of claim 14, wherein the power line monitor tests power line patterns against a pattern model of acceptable power line patterns.

Sub B1  
Q4

16. (New) A system for detecting device failures in an automation system for remotely controlling a power-consuming device in a building, the system comprising:  
a power line providing power to the power consuming device;  
a computing device in communication with the power consuming device by way of the power line and receiving from the power consuming device a first set of signals superimposed on the power line, and transmitting to the power consuming device a second set of signals superimposed on the power line; and

In re Appln. of Arora et al.  
Serial No. 09/641,556

*Sub B1*  
*Off*  
*Contd*  
a power line monitor that detects a pattern in the first and second sets of superimposed signals and performs a predetermined action when the pattern indicates an anomaly in the automation system.

17. (New) In an automation system for remotely controlling a power consuming device in a building, the system including: a power line providing power to the power consuming device; and a computing device in communication with the power consuming device by way of the power line and receiving from the power consuming device a first set of signals superimposed on the power line, and transmitting to the power consuming device a second set of signals superimposed on the power line, a method comprising:

detecting a pattern in the first and second sets of superimposed signals; and  
performing a predetermined action when the pattern indicates an anomaly in the automation system.

#### REMARKS

Claims 11-17 are pending in the present application. Original claims 1-10 have been canceled. The Office action dated August 7, 2002 rejected claims 1-10 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,692,215 to Kutzik et al. and rejected claims 11-15 under 35 U.S.C. § 103(a) as being unpatentable over Kutzik et al. In view of the foregoing amendments canceling claims 1-10, amending claims 11-15 and adding new claims 16 and 17, favorable reconsideration of this application is requested.

Applicants acknowledge with appreciation the interview between applicants' representatives John Conklin and Jason Evans and examiners Emanuel T. Voeltz and Thomas Pham on November 5, 2002. The amendments formally presented herein were discussed during the interview. As a result of the interview, agreement was reached that amended claim 11 and new claims 16-17 were allowable over the prior art of record. These same amendments are therefore formally submitted herein. The applicants also appreciate the